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coronæ. There follow a memoir on mirages by Monge (1797) and an account by Scoresby (1820) of some remarkable atmospheric reflections and refractions in the Greenland Sea; the earliest discussion of twilight by Alhazen (about 1000) and the first good account of the anti-twilight arch by Mairan (1753). The volume contains several illustrations, which like some of the text are in facsimile, and is enriched with the usual historical and explanatory notes. Dr. Hellmann's work is always so exact that it is a surprise to find slight typographical errors on page 83 in the reprint of Scoresby's paper. Like its predecessors, the present volume is published with the aid of the German Meteorological Society, which has fixed the price at 11 marks (\$2.75), and although it is not on sale in this country, two or three copies may be purchased at the above price from the Blue Hill Observatory, Hyde Park, Mass. Before closing my reviews of these reprints of rare papers, it should be mentioned that already several of the preceding thirteen numbers are out of print, which shows that Dr. Hellmann's enterprise has been quickly appreciated by librarians and private collectors of historic documents.

A. LAWRENCE ROTCH.

SCIENTIFIC JOURNALS AND ARTICLES.

Bird Lore for July-August opens with an entertaining article 'Concerning the Bad Repute of Whiskey John' by Fannie Hardy Eckstorm, and this is followed by some well illustrated 'Nighthawk Notes' by George H. Selleck. Ernest Crosby contributes a poem on 'The Veery's Note' and John Hutchins describes in some detail 'The Nesting of the Yellow-Throated Vireo.' Edith M. Thomas commemorates in verse the destructiveness of 'The Sapsucker,' and the instalment of 'How to Name the Birds' is devoted to the vireos, warblers and pipits. The reviews and reports of societies are of interest, as is also the editorial on nomenclature.

The Plant World for July contains 'Through Desert and Mountain in Southern California' by S. B. Parish, 'The Protection of Native

Plants' by Idelette Carpenter and 'Plants used for Cuban Confectionery' by Charles Louis Pollard. In the supplement devoted to the Families of Flowering Plants Mr. Pollard continues the descriptions of the families of the Polemoniales.

The Museums Journal of Great Britain begins its second year with the July number. The Report of the Council of the Museums Association states that the publication of the *Journal* has been in every way a success and that it will soon begin the publication of a Directory of Museums as a Supplement. The first instalment will probably be in the August number. The leading article is the address of the president of the Museums Association, Mr. W. E. B. Priestly. There is a description of a museum microscope which has just been placed on the market by Messrs. W. Watson and Sons. As now arranged this instrument is limited to 12 slides, but we see no reason why it could not be so modified as to take slides placed on an endless belt after the method devised by Dr. J. M. Flint and used in the Army Medical Museum. There is a too brief account of the opening of the very interesting War and Peace Museum at Lucerne, designed to illustrate the history and horrors of warfare with a view to aiding in its abolishment.

The American Naturalist for August contains a description, in some detail, of 'The Anatomy of a Double Calf' by H. L. Osborn, an account of 'The Metamorphosis of *Sisyr*' by Maude H. Anthony, which contains as well many details of the anatomy of the larva and of wing variation in the adult. Henrietta F. Thacher describes 'The Regeneration of the Pharynx in *Planaria maculata*,' and William A. Hilton 'A Structural Feature connected with the Mating of *Diemyctylus viridescens*,' these being the small pits on the sides of the neck. These are much larger in the male than in the female and their secretion is thought to attract the female and cause her to follow the male after mating. C. R. Eastman gives 'Some Hitherto Unpublished Observations of Orestes St. John on Palæozoic Fishes' and S. N. Rhoads presents some observations on 'The

Marsh or Rice Field Mice of the Eastern United States.' The number contains the 'Quarterly List of Gifts, Appointments, Retirements and Deaths.'

DISCUSSION AND CORRESPONDENCE.

SCIENTIFIC NOMENCLATURE.

TO THE EDITOR OF SCIENCE: In SCIENCE for March 21, 1902, Mr. Frank W. Very writes an article on 'Scientific Nomenclature'; he says that "Scientific descriptions remain unintelligible to the lazy man who hates to use the dictionary. They are free property to all who are willing to take this trouble." Mr. Horace White comments on this in the number for March 28, and gives the word 'ecology' as one which he could not find; the discussion which followed has been interesting and instructive; Dr. George M. Gould, the learned editor of *American Medicine*, gave it an editorial notice in his journal of July 19. I fully indorse Mr. Very's opinion of the 'lazy man,' but one who hunts up all words that are new to him will have many disappointments if he expects to find them all; during the past month I have been keeping a list of words not in the dictionaries that I have; these dictionaries are Webster's International, edition of 1890; the Universal or Encyclopedic, 1897, edited by Robert Hunter and Charles Morris; and the Century, edition of 1902. Following is the list of words, with the name of the user, and place where I found them:

Chemotactic, S. J. Meltzer, M.D., *American Medicine*, Vol. IV., p. 61.

Isotonic (in a chemical or physiological sense), do., p. 63.

Epeirogenic, Robert T. Hill, *National Geographic Magazine*, July, 1902, pp. 228, 238.

Electron (in reference to an atom of electricity), J. A. Fleming, *Popular Science Monthly*, May, 1902, p. 6.

Micromil, do., p. 10.

Avalent, do., p. 15.

Stereochemistry, do., p. 15.

Catalyzer, Carl H. Eigenmann, *Popular Science Monthly*, May, 1902, p. 39.

Sedentation, Professor W. H. Holmes, 'National Museum Report,' 1900, p. 177.

Automatograph, Geo. M. Stratton, SCIENCE, July 4, 1902, p. 25; Milieu, Geo. M. Stratton,

SCIENCE, July 4, 1902, p. 25. (A French word, but one meets it occasionally.)

Tropism, Professor E. B. Titchener, *Popular Science Monthly*, March, 1902, p. 463. (Also in SCIENCE, XV., pp. 793.)

Chemoreflex, do., p. 463.

Photo-reception, do., p. 465.

Pylophore, Professor J. C. Branner, *Popular Science Monthly*, March, 1902, p. 407.

Garial, Professor S. W. Williston, *Popular Science Monthly*, February, 1902, p. 314.

Acutiplantar, Robert Ridgway, 'Birds of North and Middle America,' Part I., p. 24.

Esthetology, J. W. Powell, 'Report of the Bureau of American Ethnology,' 18, Part I., p. xxvi.

Sophiology, J. W. Powell, 'Report of the Smithsonian Institution,' 1898, p. 45.

Activital, J. W. Powell, 'Report of the Bureau of American Ethnology,' 18, p. xxvi.

Conventionize, -ism, do., pp. xxx, xxxi.

Demonomy, J. W. Powell, 'Report of the Bureau of American Ethnology,' 15, p. xix. (In sense of 'science of humanity.')

Accultural, -ed, do., 18, pp. xxxiv, xxxvii.

Protolithic, do., 18, pp. xxxvii, xxxviii.

Technolithic, do., 18, p. xxxviii.

Lexic, do., 18, p. xlii.

Peyote (mescal), do., 18, pp. xxviii, xlv. (Also Havelock Ellis, *Popular Science Monthly*, May, 1902, p. 52.)

Prototroch, Robert Payne Bigelow, 'Reference Handbook of the Medical Sciences,' 1902, Vol. IV., p. 656.

Biophor, do., p. 654.

Bionomics, Charles Sedgwick Minot, SCIENCE, July 4, 1902, p. 5.

Ethology (biologic meaning), William Morton Wheeler, SCIENCE, Vol. XV., p. 975.

Orthogenesis, H. Spencer (quoted from Eimer), 'Principles of Biology,' Vol. I., p. 563.

Determinant (in Weismann's sense), H. Spencer, 'Facts and Comments,' p. 129.

These have been noted during the past month; many of them are self-explanatory; a few are found in the dictionaries, but with no meaning given to correspond with that which the user wishes to convey; there are no doubt good reasons why these are not given in the dictionaries, but it seems to me that some of them deserve a place therein.

R. H. HARPER.